



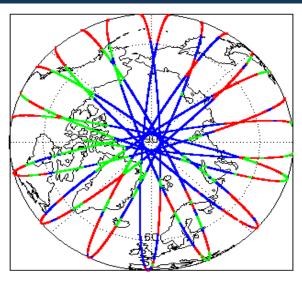
## 1. Overview

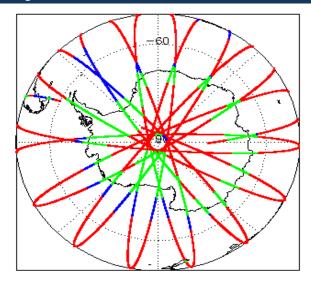
| Report Production: | 02-May-2018  |
|--------------------|--|
| Processor Used:    | CryoSat Ocean Processor  |
| Data Used:         | Geophysical Ocean Products (GOP)<br>L1B, L2 & P2P Science Data |

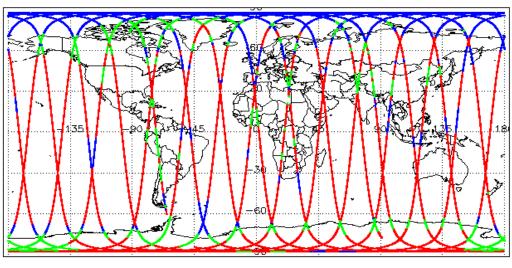
| Check                                      | L1 & L2                      | P2P                  |
|--|------------------------------|----------------------|
| Server check: science-pds.cryosat.esa.int  | Nominal                      | Nominal              |
| Server check: calval-pds.cryosat.esa.int   | Nominal                      | Nominal              |
| Product Software Check                     | Nominal                      | Nominal              |
| Product Format Check                       | Nominal                      | Nominal              |
| Product Header Analysis                    | Nominal                      | Nominal              |
| Auxiliary Data File Usage Check            | Nominal                      | Nominal              |
| Auxiliary Correction Error Check           | Nominal                      | Nominal              |
| Measurement Confidence Data Check          | See Section 4.5, 4.6 and 5.5 | See Section 6.5      |
| Range, SWH & Backscatter Measurement Check | See Section 5.6, 5.7         | See Section 6.6, 6.7 |
| Ocean Retracking Quality Check             | See Section 5.8              | See Section 6.8      |

| Mission / Instru | ment News       |
|------------------|-----------------|
| 01-Apr-2018      | None            |
| 02-Apr-2018      | None            |
| 03-Apr-2018      | Nothing planned |

# 2. Global Coverage









# 3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

0

### 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

#### 4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

### 4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Attitude Correction Missing: This flag is currently set in error for GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

| Product   |                     | Description  |
|---|---------------------|--|
| CS_OFFL_SIR_GOPM1B_20180402T201104_20180402T201212_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records |

### 4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

15

| Product   | Test Failed  | Description  |
|---|--------------|--|
| CS_OFFL_SIR_GOPM1B_20180402T082330_20180402T083613_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPM1B_20180402T154443_20180402T154527_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180402T035807_20180402T035905_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180402T085809_20180402T090043_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180402T102204_20180402T102326_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180402T103500_20180402T103925_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180402T172112_20180402T172139_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180402T204400_20180402T204512_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180402T223418_20180402T223540_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180402T235709_20180403T000155_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPR1B_20180402T004401_20180402T004842_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPR1B_20180402T052845_20180402T052919_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPR1B_20180402T153411_20180402T154036_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPR1B_20180402T154036_20180402T154329_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPR1B_20180402T155442_20180402T155516_C001 | Loss of Echo | The tracking echo is missing for one or more records |

### 5. GOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

### 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

### 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

## 5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Number of products with errors:

### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

| Product   | Test Failed         | Description   |
|---|---------------------|---|
| CS_OFFL_SIR_GOPM_2_20180402T201104_20180402T201212_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |

#### 5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

| Product  | Test Failed                  | Description  |
|--|------------------------------|--|
| CS_OFFL_SIR_GOPM_2_20180401T235545_20180402T000129_C001    | Ice Range Averaging Status   | The loe Range Averaging Status Flag has been set for one or more records.    |
| CS_OFFL_SIR_GOPM_2_20180402T000402_20180402T002929_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T010054_20180402T011221_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T011758_20180402T012947_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T013236_20180402T013348_C001    | Ice Range Averaging Status   | The Ice Range Averaging Status Flag has been set for one or more             |
| CS_OFFL_SIR_GOPM_2_20180402T013524_20180402T013954_C001    | Ice Range Averaging Status   | records. The Ice Range Averaging Status Flag has been set for one or more    |
| CS_OFFL_SIR_GOPM_2_20180402T014239_20180402T020454_C001    | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS OFFL SIR GOPM 2 20180402T022018 20180402T022040 C001    | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T023513_20180402T030851_C001    | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T031434_20180402T032009_C001    | Ice Range Averaging Status   | records. The Ice Range Averaging Status Flag has been set for one or more    |
| CS_OFFL_SIR_GOPM_2_20180402T032131_20180402T032755_C001    | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T035905_20180402T040043_C001    | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
|  | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T041402_20180402T044816_C001    |                              | records. The Ice Range Averaging Status Flag has been set for one or more    |
| CS_OFFL_SIR_GOPM_2_20180402T045337_20180402T045849_C001    | Ice Range Averaging Status   | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T050033_20180402T052034_C001    | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T055218_20180402T062600_C001    | Ocean Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more    |
| CS_OFFL_SIR_GOPM_2_20180402T063048_20180402T063336_C001    | Ice Range Averaging Status   | records. The Ice Range Averaging Status Flag has been set for one or more    |
| CS_OFFL_SIR_GOPM_2_20180402T063353_20180402T063752_C001    | Ice Range Averaging Status   | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T063955_20180402T070852_C001    | Ocean Range Averaging Status | records.  The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180402T070907_20180402T071611_C001    | Ocean Range Averaging Status | records.   |
| CS_OFFL_SIR_GOPM_2_20180402T073529_20180402T074311_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T074752_20180402T080534_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T080716_20180402T081235_C001    | Ice Range Averaging Status   | The Ice Range Averaging Status Flag has been set for one or more records.    |
| CS_OFFL_SIR_GOPM_2_20180402T082330_20180402T083612_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T083826_20180402T085026_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T091744_20180402T092715_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T092951_20180402T094452_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T094641_20180402T095146_C001    | Ice Range Averaging Status   | The Ice Range Averaging Status Flag has been set for one or more records.    |
| CS_OFFL_SIR_GOPM_2_20180402T095210_20180402T095325_C001    | Ice Range Averaging Status   | The Ice Range Averaging Status Flag has been set for one or more records.    |
| CS_OFFL_SIR_GOPM_2_20180402T100017_20180402T100114_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T101032_20180402T101156_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T102326_20180402T103035_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T110637_20180402T112353_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T112641_20180402T113102_C001    | Ice Range Averaging Status   | The Ice Range Averaging Status Flag has been set for one or more records.    |
| CS_OFFL_SIR_GOPM_2_20180402T113108_20180402T113117_C001    | Ice Range Averaging Status   | The Ice Range Averaging Status Flag has been set for one or more records.    |
| CS_OFFL_SIR_GOPM_2_20180402T113655_20180402T121157_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T123735_20180402T130338_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T130453_20180402T131015_C001    | Ice Range Averaging Status   | The Ice Range Averaging Status Flag has been set for one or more records.    |
| CS_OFFL_SIR_GOPM_2_20180402T131604_20180402T132817_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T133353_20180402T134908_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T142100_20180402T144312_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T144443_20180402T145253_C001    | Ice Range Averaging Status   | The Ice Range Averaging Status Flag has been set for one or more records.    |
| CS_OFFL_SIR_GOPM_2_20180402T145528_20180402T153025_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T154329_20180402T154433_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records.  |
| CS_OFFL_SIR_GOPM_2_20180402T160930_20180402T161303_C001    | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more           |
| CS_OFFL_SIR_GOPM_2_20180402T161404_20180402T162238_C001    | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T162422_20180402T162942_C001    | Ice Range Averaging Status   | records.  The Ice Range Averaging Status Flag has been set for one or more   |
| CS_OFFL_SIR_GOPM_2_20180402T163458_20180402T165753_C001    | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T170039_20180402T170955_C001    | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T172206_20180402T172611_C001    | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more  |
| 55_5 E_5III_557 III_E_E01004021112200_201004021112011_0001 | Coour range Averaging Status | records.   |

| CS_OFFL_SIR_GOPM_2_2018040Z119032_2018040Z118013_C001  CS_OFFL_SIR_GOPM_2_2018040Z118013_C018040Z118013_C001  CS_OFFL_SIR_GOPM_2_2018040Z118014_C001  CS_OFFL_SIR_GOPM_2_2018040Z118014_C001  CS_OFFL_SIR_GOPM_2_2018040Z118014_C001  CS_OFFL_SIR_GOPM_2_2018040Z118014_C001  CS_OFFL_SIR_GOPM_2_2018040Z118016_C01801405_C001  CS_OFFL_SIR_GOPM_2_2018040Z118016_C01801405_C001  CS_OFFL_SIR_GOPM_2_2018040Z118016_C01801405_C001  CS_OFFL_SIR_GOPM_2_2018040Z118016_C001  CS_OFFL_SIR_GOPM_2_2018040Z118016_C001  CS_OFFL_SIR_GOPM_2_2018040Z119030_2018040Z119010_C001  CS_OFFL_SIR_GOPM_2_2018040Z119030_2018040Z11902_C001  CS_OFFL_SIR_GOPM_2_2018040Z19030_2018040Z11902_C001  CS_OFFL_SIR_GOPM_2_2018040Z119030_2018040Z11902_C001  CS_OFFL_SIR_GOPM_2_2018040Z119030_2018040Z11902_C001  CS_OFFL_SIR_GOPM_2_2018040Z1013018040Z10010_C001  CS_OFFL_SIR_GOPM_2_2018040Z101040Z100130_C001  CS_OFFL_SIR_GOPM_2_2018040Z101040Z100130_C001  CS_OFFL_SIR_GOPM_2_2018040Z101040Z100130_C001  CS_OFFL_SIR_GOPM_2_2018040Z101040Z100130_C001  CS_OFFL_SIR_GOPM_2_2018040Z1201801_C00120430_C001  CS_OFFL_SIR_GOPM_2_2018040Z1201801_C00120430_C001  CS_OFFL_SIR_GOPM_2_2018040Z1201801_C00120430_C001  CS_OFFL_SIR_GOPM_2_2018040Z1201801_C00120430_C001  CS_OFFL_SIR_GOPM_2_2018040Z1201801_C00120430_C001  CS_OFFL_SIR_GOPM_2_2018040Z1201801_C00120430_C001  CS_OFFL_SIR_GOPM_2_2018040Z1201801_C00120430_C001  CS_OFFL_SIR_GOPM_2_2018040Z1210101_C001  CS_OFFL_SIR_GOPM_2_2018040Z1210101_C001  CS_OFFL_SIR_GOPM_2_2018040Z1210101_C00101  CS_OFFL_SIR_GOPM_2_2018040Z1210101_C0010 | CS_OFFL_SIR_GOPM_2_20180402T174159_20180402T174643_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
|--|---|------------------------------|---|
| CS_OFFL_SIR_GOPM_2_20180402T18346_20180402T18403_0001  CS_OFFL_SIR_GOPM_2_20180402T180402 20180402T18403_0001  CS_OFFL_SIR_GOPM_2_20180402T180402_00180402T192001_C001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T1920001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T192080_C001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T19208001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T19208001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T190800_C001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T190800_C001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T190800_C001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T1002C001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T1002C001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T1002C001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T1002C001  CS_OFFL_SIR_GOPM_2_20180402T190800_20180402T1002C001  CS_OFFL_SIR_GOPM_2_20180402T190810_20001  CS_OFFL_SIR_GOPM_2_20180402T190810_200010001  CS_OFFL_SIR_GOPM_2_20180402T19080_200010001  CS_OFFL_SIR_GOPM_2_20180402T19080_200010001  CS_OFFL_SIR_GOPM_2_20180402T19080_200010001  CS_OFFL_SIR_GOPM_2_20180402T19 | CS_OFFL_SIR_GOPM_2_20180402T174831_20180402T180143_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402T190402_0180402T190404_C001  CS_OFFL_SIR_GOPM_2_20180402T190500_20180402T190501_C001  CS_OFFL_SIR_GOPM_2_20180402T190500_20180402T191200_C001  CS_OFFL_SIR_GOPM_2_20180402T190500_20180402T191200_C001  CS_OFFL_SIR_GOPM_2_20180402T191224_20180402T190518_C001  CS_OFFL_SIR_GOPM_2_20180402T191224_20180402T190518_C001  CS_OFFL_SIR_GOPM_2_20180402T191224_20180402T190518_C001  CS_OFFL_SIR_GOPM_2_20180402T191224_20180402T190518_C001  CS_OFFL_SIR_GOPM_2_20180402T191224_20180402T190527_C001  CS_OFFL_SIR_GOPM_2_20180402T1910500_20180402T100501  CS_OFFL_SIR_GOPM_2_20180402T105403_20180402T100501  CS_OFFL_SIR_GOPM_2_20180402T105403_20180402T205405_C001  CS_OFFL_SIR_GOPM_2_20180402T105405_20180402T205405_C001  CS_OFFL_SIR_GOPM_2_20180402T205489_20180402T204757_C001  CS_OFFL_SIR_GOPM_2_20180402T205489_20180402T205405_C001  CS_OFFL_SIR_GOPM_2_20180402T205489_20180402T20550_C001  CS_OFFL_SIR_GOPM_2_20180402T20549_20180402T20550_C001  CS_OFFL_SIR_GOPM_2_20180402T205407_20180402T218185_C001  CS_OFFL_SIR_GOPM_2_20180402T20540_C001  CS_OFFL_SIR_GOPM_2_20180402T20550_C001  CS_OFFL_SIR_GOPM_2_20180402T20550_C0010402T20550_C001  CS_OFFL_SIR_GOPM_2_20180402T20550_C0010402T20550_C001  CS_ | CS_OFFL_SIR_GOPM_2_20180402T180523_20180402T180841_C001 | Ice Range Averaging Status   |   |
| CS_OFFL_SIR_GOPM_2_20180402T190500_20180402T19050_COO  Coean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status The Ocean Range Averaging St | CS_OFFL_SIR_GOPM_2_20180402T181405_20180402T182036_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402719003_20180402719120_C001  CS_OFFL_SIR_GOPM_2_20180402719020_20101  CS_OFFL_SIR_GOPM_2_20180402719020_20101  CS_OFFL_SIR_GOPM_2_20180402719020_20101  CS_OFFL_SIR_GOPM_2_20180402719020_20101  CS_OFFL_SIR_GOPM_2_20180402719020_20101  CS_OFFL_SIR_GOPM_2_20180402719020_20101  CS_OFFL_SIR_GOPM_2_20180402710512_20180402720243_C001  CS_OFFL_SIR_GOPM_2_20180402720347_20180402720243_C001  CS_OFFL_SIR_GOPM_2_20180402720347_20180402720459_C001  CS_OFFL_SIR_GOPM_2_20180402720347_20180402720459_C001  CS_OFFL_SIR_GOPM_2_20180402720347_20180402720457_C001  CS_OFFL_SIR_GOPM_2_201804027204549_20180402720457_C001  CS_OFFL_SIR_GOPM_2_201804027204549_20180402720459_C001  CS_OFFL_SIR_GOPM_2_201804027204549_20180402720459_C001  CS_OFFL_SIR_GOPM_2_201804027204549_20180402720459_C001  CS_OFFL_SIR_GOPM_2_201804027204549_20180402720459_C001  CS_OFFL_SIR_GOPM_2_201804027204549_20180402720459_C001  CS_OFFL_SIR_GOPM_2_201804027204549_20180402720459_C001  CS_OFFL_SIR_GOPM_2_20180402720549_C0016  CS_OFFL_SIR_GOPM_2_20180402720549_C0016  CS_OFFL_SIR_GOPM_2_20180402720549_C0016  CS_OFFL_SIR_GOPM_2_201804027220720_20180402720540_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_201804027220450_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_201804027220400_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_201804027220640_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_20180402722060_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_20180402722060_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_20180402720061_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_20180402720061_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_20180402720061_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_20180402720061_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_20180402720061_C0016  CS_OFFL_SIR_GOPM_2_20180402722070_20180402720061_C0016  CS_OFFL_SIR_GOPM_2_20180402720071606_C0016  CS_OFFL_SIR_GOPM_2_20180402720071606_C0016  CS_OFFL_SIR_GOPM_2_20180402720071606_C0016  CS_OFFL_SIR_GOPM_2_20180402720071606_C0016  CS_OFFL_SIR_GOPM_2_20180402720071606_C0016  CS_OFFL_SIR_GOPM_2_201804027120071606_C0016  CS_OFFL_SIR_GO | CS_OFFL_SIR_GOPM_2_20180402T182046_20180402T184653_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402719124_2018040271930816_C001  CS_OFFL_SIR_GOPM_2_20180402719124_2018040271930816_C001  CS_OFFL_SIR_GOPM_2_20180402719523_0001804027195227_C001  CS_OFFL_SIR_GOPM_2_201804027195432_201804027195227_C001  CS_OFFL_SIR_GOPM_2_201804027195432_201804027120102_C001  CS_OFFL_SIR_GOPM_2_20180402710513_201804027120102_C001  CS_OFFL_SIR_GOPM_2_20180402710513_20180402720345_C001  CS_OFFL_SIR_GOPM_2_20180402710513_201804027105102_C001  CS_OFFL_SIR_GOPM_2_20180402710517_20180402720455_C001  CS_OFFL_SIR_GOPM_2_20180402710517_201804027105105_C001  CS_OFFL_SIR_GOPM_2_20180402710512_001804027118051_C001  CS_OFFL_SIR_GOPM_2_201804027127332_201804027118051_C001  CS_OFFL_SIR_GOPM_2_201804027127332_20180402713156_C001  CS_OFFL_SIR_GOPM_2_201804027127332_201804027124054_C001  CS_OFFL_SIR_GOPM_2_201804027123332_201804027124054_C001  CS_OFFL_SIR_GOPM_2_201804027123332_20180402713356_C001  CS_OFFL_SIR_GOPM_2_201804027123332_20180402713356_C001  CS_OFFL_SIR_GOPM_2_201804027123332_20180402713356_C001  CS_OFFL_SIR_GOPM_2_201804027123332_20180402713356_C001  CS_OFFL_SIR_GOPM_2_201804027123332_20180402713356_C001  CS_OFFL_SIR_GOPM_2_201804027123332_20180402712408_C001  CS_OFFL_SIR_GOPM_2_201804027123332_20180402723418_C001  CS_OFFL_SIR_GOPM_2_201804027123332_20180402723418_C001  CS_OFFL_SIR_GOPM_2_201804027122250_20180402723418_C001  CS_OFFL_SIR_GOPM_2_2018040271222534_20180402723540_C001  CS_OFFL_SIR_GOPM_2_2018040271222534_20180402723550_C001  CS_OFFL_SIR_GOPM_2_201804027123532_20180402723550_C001  CS_OFFL_SIR_GOPM_2_201804027123532_20180402723550_C001  CS_OFFL_SIR_GOPM_2_20180402713532_20180402723550_C001  CS_OFFL_SIR_GOPM_2_20180402713532_20180402723550_C001  CS_OFFL_SIR_GOPM_2_20180402713532_20180402723550_C001  CS_OFFL_SIR_GOPM_2_20180402713532_20180402723550_C001  CS_OFFL_SIR_GOPM_2_201804027135350_C001  CS_OFFL_SIR_GOPM_2_201804027135350_C001  CS_OFFL_SIR_GOPM_2_201804027135350_C001  CS_OFFL_SIR_GOPM_2_201804027135250_C001  CS_OFFL_SIR_GOPM_2_201804027135250_C001  CS_OFFL_SIR_GOPM_2_201804027135250_C001  CS_O | CS_OFFL_SIR_GOPM_2_20180402T190403_20180402T190414_C001 | Ocean Range Averaging Status | records.  |
| CS_OFFL_SIR_GOPM_2_20180402T195030_20180402T195227_C001  CS_OFFL_SIR_GOPM_2_20180402T195030_20180402T201302_C001  CS_OFFL_SIR_GOPM_2_20180402T195423_20180402T20343_C001  CS_OFFL_SIR_GOPM_2_20180402T20343_C001  CS_OFFL_SIR_GOPM_2_20180402T20343_C001  CS_OFFL_SIR_GOPM_2_20180402T203457_C001  CS_OFFL_SIR_GOPM_2_20180402T203457_C001  CS_OFFL_SIR_GOPM_2_20180402T203457_C001  CS_OFFL_SIR_GOPM_2_20180402T2034572_C001  CS_OFFL_SIR_GOPM_2_20180402T203459_20180402T203550_C001  CS_OFFL_SIR_GOPM_2_20180402T203459_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T203459_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T203459_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T21352_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T21352_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T21352_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T21352_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T21352_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T21352_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T21352_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T213510_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T213515_C001  CS_OFFL_SIR_GOPM_2_20180402T213516_20180402T223318_C001  CS_OFFL_SIR_GOPM_2_20180402T23540_20180402T23318_C001  CS_OFFL_SIR_GOPM_2_20180402T23540_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T23540_20180402T23550_C001  CS_OFFL_SIR_GOPM_2_20180402T23560_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T23580_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T30582_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T30582_20180402T30582_C001  CS_OFFL_SIR_GOPM_2_20180402T30582_20180402T30582_C001  CS_OFFL_SIR_GOPM_2_20180402T30582_20180402T30582_C001  CS_OFFL_SIR_GOPM_2_20180402T30582_20180402T30580_C001  CS_OFFL_SIR_GOPM_2_20180402T30582_20180402T30580_C001  CS_OFFL_SIR_GOPM_2_20180402T30582_20180402T30580_C001  CS_OFFL_SIR_GOPM_2_20180402T30582_20180402T30580_C001  CS_OFFL_SIR_GO | CS_OFFL_SIR_GOPM_2_20180402T190500_20180402T191200_C001 | Ocean Range Averaging Status | records.  |
| CS_OFFL_SIR_GOPM_2_201804027195423_201804027201302_CO01  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status F | CS_OFFL_SIR_GOPM_2_20180402T191224_20180402T193618_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402T201513_20180402T202343_CO01  CS_OFFL_SIR_GOPM_2_20180402T20347_20180402T20343_CO01  CS_OFFL_SIR_GOPM_2_20180402T20347_20180402T20457_CO01  CS_OFFL_SIR_GOPM_2_20180402T20347_20180402T20457_CO01  CS_OFFL_SIR_GOPM_2_20180402T204517_20180402T20457_CO01  CS_OFFL_SIR_GOPM_2_20180402T204517_20180402T20457_CO01  CS_OFFL_SIR_GOPM_2_20180402T204517_20180402T210513_CO01  CS_OFFL_SIR_GOPM_2_20180402T210711_20180402T210515_CO01  CS_OFFL_SIR_GOPM_2_20180402T212732_20180402T213156_CO01  CS_OFFL_SIR_GOPM_2_20180402T2127335_20180402T213156_CO01  CS_OFFL_SIR_GOPM_2_20180402T2127335_20180402T213156_CO01  CS_OFFL_SIR_GOPM_2_20180402T2127335_20180402T213156_CO01  CS_OFFL_SIR_GOPM_2_20180402T2127335_0180402T213156_CO01  CS_OFFL_SIR_GOPM_2_20180402T213355_0180402T220180402T214839_CO01  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T220540_CO01  CS_OFFL_SIR_GOPM_2_20180402T222708_20180402T222708_0180402T222708_0180402T222708_0180402T222708_0180402T222708_0180402T222708_0180402T223540_0180402T23355_CO01  CS_OFFL_SIR_GOPM_2_20180402T23355_0180402T233156_CO01  CS_OFFL_SIR_GOPM_2_20180402T233156_20180402T233156_CO01  CS_OFFL_SIR_GOPM_2_20180402T2325202_0180402T233156_CO01  CS_OFFL_SIR_GOPM_2_20180402T2325350_CO01  CS_OFFL_SIR_GOPM_2_20180402T2325350_CO01  CS_OFFL_SIR_GOPM_2_20180402T231316_C0180402T233156_CO01  CS_OFFL_SIR_GOPM_2_20180402T231316_C0180402T233156_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_C0180402T231316_C0180402T233156_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_C0180402T233156_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_C0180402T233156_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_C0180402T233156_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_C0180402T133136_C0180402T133 | CS_OFFL_SIR_GOPM_2_20180402T195030_20180402T195227_C001 | Ice Range Averaging Status   |   |
| CS_OFFL_SIR_GOPM_2_20180402T203459_C001  CS_OFFL_SIR_GOPM_2_20180402T204517_20180402T20455_C001  CS_OFFL_SIR_GOPM_2_20180402T204517_20180402T204575_C001  CS_OFFL_SIR_GOPM_2_20180402T204517_20180402T204510_C001  CS_OFFL_SIR_GOPM_2_20180402T204517_20180402T20151_C001  CS_OFFL_SIR_GOPM_2_20180402T201711_20180402T211851_C001  CS_OFFL_SIR_GOPM_2_20180402T210711_20180402T211851_C001  CS_OFFL_SIR_GOPM_2_20180402T212732_20180402T211851_C001  CS_OFFL_SIR_GOPM_2_20180402T212732_20180402T211850_C001  CS_OFFL_SIR_GOPM_2_20180402T212732_20180402T21456_C001  CS_OFFL_SIR_GOPM_2_20180402T213535_20180402T24485_C001  CS_OFFL_SIR_GOPM_2_20180402T222504_C001  CS_OFFL_SIR_GOPM_2_20180402T222504_C001  CS_OFFL_SIR_GOPM_2_20180402T222504_C001  CS_OFFL_SIR_GOPM_2_20180402T222504_C001  CS_OFFL_SIR_GOPM_2_20180402T223022_0180402T230220_C001  CS_OFFL_SIR_GOPM_2_20180402T223022_0180402T230220_C001  CS_OFFL_SIR_GOPM_2_20180402T223022_0180402T230220_C001  CS_OFFL_SIR_GOPM_2_20180402T230223_0180402T230220_C001  CS_OFFL_SIR_GOPM_2_20180402T230223_0180402T230220_C001  CS_OFFL_SIR_GOPM_2_20180402T230223_0180402T230223_C001  CS_OFFL_SIR_GOPM_2_20180402T230223_0180402T230223_C001  CS_OFFL_SIR_GOPM_2_20180402T230223_0180402T230223_C001  CS_OFFL_SIR_GOPM_2_20180402T230223_C001  CS_OFFL_SIR_GOPM_2_20180402T230223_C001  CS_OFFL_SIR_GOPM_2_20180402T230223_C001  CS_OFFL_SIR_GOPM_2_20180402T230223_C001  CS_OFFL_SIR_GOPM_2_20180402T230156_C001  CS_OFFL_SIR_GOPM_2_20180402T230156_C001  CS_OFFL_SIR_GOPM_2_20180402T230156_C001  CS_OFFL_SIR_GOPM_2_20180402T230156_C001  CS_OFFL_SIR_GOPM_2_20180402T130102_C0180402T201563_C001  CS_OFFL_SIR_GOPM_2_20180402T130102_C0180402T20156_C001  CS_OFFL_SIR_GOPM_2_20180402T20156_C001  CS_OFFL_SIR_GOPM_2_20180402T20156_C001  CS_OFFL_SIR_GOPM_2_20180402T20156_C001  CS_OFFL_SIR_GOPM_2_20180402T20156_C001  CS_OFFL_SIR_GOPM_2_20180402T20156_C001  CS_OFFL_SIR_GOPM_2_20180402T20156_C001  CS_OFFL_SIR_GOPM_2_20180402T20156_C001  CS_OFFL_SIR_GOPM_2_20180402T20156_C001  CS_OFFL_SIR_GOPM_2_20180402T01560_C001  CS_OFFL_SIR_GOPM_2_2018040 | CS_OFFL_SIR_GOPM_2_20180402T195423_20180402T201102_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402T204517_20180402T204757_C001  Ocean Range Averaging Status  Fibe Ocean Range Averaging Status  | CS_OFFL_SIR_GOPM_2_20180402T201513_20180402T202343_C001 | Ocean Range Averaging Status | records.  |
| CS_OFFL_SIR_GOPM_2_20180402T204849_20180402T210515_CO01  CS_OFFL_SIR_GOPM_2_20180402T204849_20180402T211851_CO01  CS_OFFL_SIR_GOPM_2_20180402T21732_20180402T213156_CO01  CS_OFFL_SIR_GOPM_2_20180402T21732_20180402T213156_CO01  CS_OFFL_SIR_GOPM_2_20180402T21732_20180402T213156_CO01  CS_OFFL_SIR_GOPM_2_20180402T217335_20180402T214839_CO01  CS_OFFL_SIR_GOPM_2_20180402T21509_20180402T220540_CO01  CS_OFFL_SIR_GOPM_2_20180402T227508_20180402T220540_CO01  CS_OFFL_SIR_GOPM_2_20180402T227508_20180402T223418_CO01  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T223418_CO01  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T223418_CO01  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T2205001_CO01  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T2205001_CO01  CS_OFFL_SIR_GOPM_2_20180402T223550_20180402T2230001_CO01  CS_OFFL_SIR_GOPM_2_20180402T223550_20180402T230001_CO01  CS_OFFL_SIR_GOPM_2_20180402T23355_00180402T233550_CO01  CS_OFFL_SIR_GOPM_2_20180402T23355_00180402T233550_CO01  CS_OFFL_SIR_GOPM_2_20180402T23116_20180402T233550_CO01  CS_OFFL_SIR_GOPM_2_20180402T23116_20180402T233550_CO01  CS_OFFL_SIR_GOPM_2_20180402T23116_20180402T233550_CO01  CS_OFFL_SIR_GOPM_2_20180402T23116_20180402T131108_CO01  CS_OFFL_SIR_GOPM_2_20180402T13102_20180402T131108_CO01  CS_OFFL_SIR_GOPM_2_20180402T13102_20180402T1313108_CO01  CS_OFFL_SIR_GOPM_2_20180402T13102_20180402T113108_CO01  CS_OFFL_SIR_GOPM_2_20180402T13102_20180402T113108_CO01  CS_OFFL_SIR_GOPM_2_20180402T13102_20180402T113108_CO01  CS_OFFL_SIR_GOPM_2_20180402T113102_20180402T105131_CO01  CS_OFFL_SIR_GOPM_2_20180402T113102_20180402T105131_CO01  CCS_OFFL_SIR_GOPM_2_20180402T10511302_20180402T105131_CO01  CCS_OFFL_SIR_GOPM_2_20180402T10511302_20180402T105131_CO01  CCS_OFFL_SIR_GOPM_2_20180402T10511302_20180402T105131_CO01  CCS_OFFL_SIR_GOPM_2_20180402T10511302_20180402T105131_CO01  CCS_OFFL_SIR_GOPM_2_20180402T10511302_20180402T105131_CO01  CCCCARR Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set f | CS_OFFL_SIR_GOPM_2_20180402T203947_20180402T204359_C001 | Ice Range Averaging Status   |   |
| CS_OFFL_SIR_GOPM_2_20180402T21732_20180402T213156_C001  CS_OFFL_SIR_GOPM_2_20180402T21732_20180402T213156_C001  CS_OFFL_SIR_GOPM_2_20180402T213335_20180402T213156_C001  CS_OFFL_SIR_GOPM_2_20180402T213335_20180402T214839_C001  CS_OFFL_SIR_GOPM_2_20180402T215019_20180402T220540_C001  CS_OFFL_SIR_GOPM_2_20180402T215019_20180402T220540_C001  CS_OFFL_SIR_GOPM_2_20180402T222708_20180402T223418_C001  CS_OFFL_SIR_GOPM_2_20180402T222708_20180402T223418_C001  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T224028_C001  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T224028_C001  CS_OFFL_SIR_GOPM_2_20180402T224258_20180402T224028_C001  CS_OFFL_SIR_GOPM_2_20180402T224258_20180402T230001_C001  CS_OFFL_SIR_GOPM_2_20180402T233540_20180402T230001_C001  CS_OFFL_SIR_GOPM_2_20180402T23107_C001  CS_OFFL_SIR_GOPM_2_20180402T23150_20180402T231107_C001  CS_OFFL_SIR_GOPM_2_20180402T23136_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T23136_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T23136_20180402T231507_C001  CS_OFFL_SIR_GOPM_2_20180402T23136_20180402T231507_C001  CS_OFFL_SIR_GOPM_2_20180402T23136_20180402T231507_C001  CS_OFFL_SIR_GOPM_2_20180402T23136_20180402T231507_C001  CS_OFFL_SIR_GOPM_2_20180402T23136_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T03168_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T03168_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T03168_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T03168_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T03168_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T03169_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T03169_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T03150327_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T03150327_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T031649_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T031649_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T031649_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T031649_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T103162_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T031649_ | CS_OFFL_SIR_GOPM_2_20180402T204517_20180402T204757_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402T21335_20180402T213156_C001  Ice Range Averaging Status  The Loe Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag h | CS_OFFL_SIR_GOPM_2_20180402T204849_20180402T210051_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402T213335_20180402T214839_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPM_2_20180402T224258_20180402T230001_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPM_2_20180402T230223_20180402T231107_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T233550_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The  | CS_OFFL_SIR_GOPM_2_20180402T210711_20180402T211851_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402T22509_20180402T225540_C001  CS_OFFL_SIR_GOPM_2_20180402T22509_20180402T225540_C001  CS_OFFL_SIR_GOPM_2_20180402T222708_20180402T223418_C001  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T223418_C001  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T223408_C001  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T230001_C001  CS_OFFL_SIR_GOPM_2_20180402T224258_20180402T230001_C001  CS_OFFL_SIR_GOPM_2_20180402T23023_20180402T231107_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T231107_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T113108_C001  CS_OFFL_SIR_GOPM_2_20180402T13302_20180402T113108_C001  CS_OFFL_SIR_GOPM_2_20180402T13302_20180402T113108_C001  CS_OFFL_SIR_GOPM_2_20180402T13302_20180402T113108_C001  CS_OFFL_SIR_GOPM_2_20180402T13302_20180402T113108_C001  CS_OFFL_SIR_GOPM_2_20180402T13302_20180402T113108_C001  CS_OFFL_SIR_GOPM_2_20180402T13302_20180402T113108_C001  CS_OFFL_SIR_GOPM_2_20180402T13302_20180402T113108_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T104748_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T104748_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T104748_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T104748_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T104748_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T104748_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T104748_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T104748_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T104748_20180402T10513_C001  CS_OFFL_SIR_GO | CS_OFFL_SIR_GOPM_2_20180402T212732_20180402T213156_C001 | Ice Range Averaging Status   |   |
| CS_OFFL_SIR_GOPM_2_20180402T222708_20180402T223418_C001  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T223418_C001  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T224028_C001  CS_OFFL_SIR_GOPM_2_20180402T224258_20180402T230001_C001  CS_OFFL_SIR_GOPM_2_20180402T232350_20180402T23107_C001  CS_OFFL_SIR_GOPM_2_20180402T230223_20180402T231107_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T231107_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T031649_20180402T071650_C001  CS_OFFL_SIR_GOPM_2_20180402T13102_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T13102_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T13102_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T13102_20180402T153411_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T153411_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T15313_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T15313_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T15513_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T15513_C001  CS_OFFL_SIR_GOPM_2_20180402T103102_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T103102_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T103102_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T103102_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T103102_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T103102_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T10513_C001  CS_OFFL_SIR_GOPM_2_20180402T | CS_OFFL_SIR_GOPM_2_20180402T213335_20180402T214839_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T223516_CO01  CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T230001_CO01  CS_OFFL_SIR_GOPM_2_20180402T224258_20180402T230001_CO01  CS_OFFL_SIR_GOPM_2_20180402T230223_20180402T231107_CO01  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPN_2_20180402T071649_20180402T071650_CO01  Ice Range Averaging Status  CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_CO01  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The | CS_OFFL_SIR_GOPM_2_20180402T215019_20180402T220540_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402T224258_20180402T230001_C001  CS_OFFL_SIR_GOPM_2_20180402T23232_20180402T231107_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T23155_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T23355_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPM_2_20180402T071649_20180402T071650_C001  CS_OFFL_SIR_GOPM_2_20180402T071649_20180402T071650_C001  CS_OFFL_SIR_GOPM_2_20180402T113102_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T113102_20180402T13108_C001  CS_OFFL_SIR_GOPM_2_20180402T113102_20180402T133411_C001  CS_OFFL_SIR_GOPM_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T153411_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T195030_C001  Loe Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPM_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPM_2_20180402T194748_20180402T195030_C001  Loe Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.   | CS_OFFL_SIR_GOPM_2_20180402T222708_20180402T223418_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402T230223_20180402T231107_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPN_2_20180402T071649_20180402T071650_C001  CS_OFFL_SIR_GOPN_2_20180402T071649_20180402T071650_C001  CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_C001  CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_C001  CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T195030_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715_C001  CS_OFFL_SI | CS_OFFL_SIR_GOPM_2_20180402T223540_20180402T224028_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T233550_C001  CS_OFFL_SIR_GOPM_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPN_2_20180402T031058_20180402T031434_C001  CS_OFFL_SIR_GOPN_2_20180402T071649_20180402T071650_C001  CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_C001  CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_C001  CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715_C001  CCS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715_C001  CCS_OFFL_SIR_GOPR_2_20180402T20 | CS_OFFL_SIR_GOPM_2_20180402T224258_20180402T230001_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPN_2_20180402T031058_20180402T031434_C001  Ice Range Averaging Status  CS_OFFL_SIR_GOPN_2_20180402T071649_20180402T071650_C001  CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_C001  CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_C001  CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  | CS_OFFL_SIR_GOPM_2_20180402T230223_20180402T231107_C001 | Ice Range Averaging Status   |   |
| CS_OFFL_SIR_GOPN_2_20180402T071649_20180402T071650_C001  CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_C001  CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_C001  CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T203715_C001  CS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715_C001  | CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T233550_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPN_2_20180402T1071649_20180402T1071630_C001  Ice Range Averaging Status  CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T203715_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  | CS_OFFL_SIR_GOPN_2_20180402T031058_20180402T031434_C001 | Ice Range Averaging Status   |   |
| CS_OFFL_SIR_GOPN_2_20180402T193237_20180402T1953411_C001  CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001  CS_OFFL_SIR_GOPN_2_20180402T201212_20180402T195030_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T203715_C001  CS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715_C001  CS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715 | CS_OFFL_SIR_GOPN_2_20180402T071649_20180402T071650_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPN_2_20180402T193337_20180402T195030_C001  Ice Range Averaging Status  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  | CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_C001 | Ice Range Averaging Status   |   |
| CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001  CS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  | CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  | CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001 | Ice Range Averaging Status   |   |
| CS_OFFL_SIR_GOPR_2_201804021203140_201804021203715_C001  Ocean Range Averaging Status  records.  The Ocean Range Averaging Status Flag has been set for one or more  | CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001 | Ocean Range Averaging Status |   |
| The Ocean Range Averaging Status Flag has been set for one or more   | CS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715_C001 | Ocean Range Averaging Status |   |
| CS_OFFL_SIR_GOPR_2_20180402T214840_20180402T215019_C001  Ocean Range Averaging Status records.   | CS_OFFL_SIR_GOPR_2_20180402T214840_20180402T215019_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |

## 5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

| Product   | Test Failed   | Description   |
|---|---|---|
| CS_OFFL_SIR_GOPM_2_20180401T235545_20180402T000129_C001 | Ice Backscatter Averaging Status                            | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T000402_20180402T002929_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T010054_20180402T011221_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T011758_20180402T012947_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T013524_20180402T013954_C001 | Ice Backscatter Averaging Status                            | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T014239_20180402T020454_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T023513_20180402T030851_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T031434_20180402T032009_C001 | Ice Backscatter Averaging Status                            | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T032131_20180402T032755_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T035905_20180402T040043_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T041402_20180402T044816_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T045337_20180402T045849_C001 | Ice Backscatter Averaging Status                            | The Ice Backscatter Averaging Status Flag has been set for one or more records. |

|   | SWH Averaging Status, Ocean   | The SWH and Ocean Averaging Status Flags have been set for one or   |
|---|---|---|
| CS_OFFL_SIR_GOPM_2_20180402T050033_20180402T052034_C001 | Backscatter Averaging Status  | more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T055218_20180402T062600_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T063048_20180402T063336_C001 | Ice Backscatter Averaging Status  | The Ice Backscatter Averaging Status Flag has been set for one or more  |
| C3_011  | ice backscatter Averaging Status  | records.  The Ice Backscatter Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T063353_20180402T063752_C001 | Ice Backscatter Averaging Status  | records.  |
| CS_OFFL_SIR_GOPM_2_20180402T063955_20180402T070852_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T070907_20180402T071611_C001 | SWH Averaging Status, Ocean   | The SWH and Ocean Averaging Status Flags have been set for one or   |
|   | Backscatter Averaging Status SWH Averaging Status, Ocean  | more records.  The SWH and Ocean Averaging Status Flags have been set for one or  |
| CS_OFFL_SIR_GOPM_2_20180402T073529_20180402T074311_C001 | Backscatter Averaging Status  | more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T074752_20180402T080534_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T080716_20180402T081235_C001 | Ice Backscatter Averaging Status  | The Ice Backscatter Averaging Status Flag has been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T082330_20180402T083612_C001 | SWH Averaging Status, Ocean   | The SWH and Ocean Averaging Status Flags have been set for one or   |
|   | Backscatter Averaging Status SWH Averaging Status, Ocean  | more records.  The SWH and Ocean Averaging Status Flags have been set for one or  |
| CS_OFFL_SIR_GOPM_2_20180402T083826_20180402T085026_C001 | Backscatter Averaging Status  | more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T091744_20180402T092715_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T092951_20180402T094452_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS OFFL SIR GOPM 2 20180402T094641 20180402T095146 C001 | Ice Backscatter Averaging Status  | The Ice Backscatter Averaging Status Flag has been set for one or more  |
|   |   | records.  The Ice Backscatter Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T095210_20180402T095325_C001 | Ice Backscatter Averaging Status  | records.  |
| CS_OFFL_SIR_GOPM_2_20180402T100017_20180402T100114_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T101032_20180402T101156_C001 | SWH Averaging Status, Ocean   | The SWH and Ocean Averaging Status Flags have been set for one or   |
|   | Backscatter Averaging Status SWH Averaging Status, Ocean  | more records.  The SWH and Ocean Averaging Status Flags have been set for one or  |
| CS_OFFL_SIR_GOPM_2_20180402T102326_20180402T103035_C001 | Backscatter Averaging Status SWH Averaging Status, Ocean  | more records.  The SWH and Ocean Averaging Status Flags have been set for one or  |
| CS_OFFL_SIR_GOPM_2_20180402T110329_20180402T110423_C001 | Backscatter Averaging Status  | more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T110637_20180402T112353_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T112641_20180402T113102_C001 | Ice Backscatter Averaging Status  | The Ice Backscatter Averaging Status Flag has been set for one or more  |
|   |   | records.  The Ice Backscatter Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T113108_20180402T113117_C001 | Ice Backscatter Averaging Status  | records.  |
| CS_OFFL_SIR_GOPM_2_20180402T113655_20180402T121157_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T123735_20180402T130338_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS OFFL SIR GOPM 2 20180402T130453 20180402T131015 C001 | Ice Backscatter Averaging Status  | The Ice Backscatter Averaging Status Flag has been set for one or more  |
|   | SWH Averaging Status, Ocean   | records.  The SWH and Ocean Averaging Status Flags have been set for one or   |
| CS_OFFL_SIR_GOPM_2_20180402T131604_20180402T132817_C001 | Backscatter Averaging Status  | more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T133353_20180402T134908_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T142100_20180402T144312_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T144443_20180402T145253_C001 | Ice Backscatter Averaging Status  | The Ice Backscatter Averaging Status Flag has been set for one or more  |
|   | SWH Averaging Status, Ocean   | records.  The SWH and Ocean Averaging Status Flags have been set for one or   |
| CS_OFFL_SIR_GOPM_2_20180402T145528_20180402T153025_C001 | Backscatter Averaging Status  | more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T154329_20180402T154433_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T160930_20180402T161303_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS OFFL SIR GOPM 2 20180402T161404 20180402T162238 C001 | SWH Averaging Status, Ocean   | The SWH and Ocean Averaging Status Flags have been set for one or   |
|   | Backscatter Averaging Status  | more records.  The Ice Backscatter Averaging Status Flag has been set for one or more   |
| CS_OFFL_SIR_GOPM_2_20180402T162422_20180402T162942_C001 | Ice Backscatter Averaging Status  | records.  |
| CS_OFFL_SIR_GOPM_2_20180402T163458_20180402T165753_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T170039_20180402T170955_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T172206_20180402T172611_C001 | SWH Averaging Status, Ocean   | The SWH and Ocean Averaging Status Flags have been set for one or   |
|   | Backscatter Averaging Status SWH Averaging Status, Ocean  | more records.  The SWH and Ocean Averaging Status Flags have been set for one or  |
| CS_OFFL_SIR_GOPM_2_20180402T174159_20180402T174643_C001 | Backscatter Averaging Status  | more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T174831_20180402T180143_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T180523_20180402T180841_C001 | Ice Backscatter Averaging Status  | The Ice Backscatter Averaging Status Flag has been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T181405_20180402T182036_C001 | SWH Averaging Status, Ocean   | The SWH and Ocean Averaging Status Flags have been set for one or   |
|   | Backscatter Averaging Status SWH Averaging Status, Ocean  | more records.  The SWH and Ocean Averaging Status Flags have been set for one or  |
| CS_OFFL_SIR_GOPM_2_20180402T182046_20180402T184653_C001 | Backscatter Averaging Status  | more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T190403_20180402T190414_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| CS_OFFL_SIR_GOPM_2_20180402T190500_20180402T191200_C001 | SWH Averaging Status, Ocean   | The SWH and Ocean Averaging Status Flags have been set for one or   |
| CS_OFFL_SIR_GOPM_2_20180402T191224_20180402T193618_C001 | Backscatter Averaging Status SWH Averaging Status, Ocean  | more records.  The SWH and Ocean Averaging Status Flags have been set for one or  |
|   | Backscatter Averaging Status  | more records.  The Ice Backscatter Averaging Status Flag has been set for one or more   |
| CS_OFFL_SIR_GOPM_2_20180402T195030_20180402T195227_C001 | Ice Backscatter Averaging Status  | records.  |
| CS_OFFL_SIR_GOPM_2_20180402T195423_20180402T201102_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status   | The SWH and Ocean Averaging Status Flags have been set for one or more records.   |
| 00 OFFI OID CODM O 00400400T004F40 00400400T000040 0004 |   | The SWH and Ocean Averaging Status Flags have been set for one or   |
| CS_OFFL_SIR_GOPM_2_20180402T201513_20180402T202343_C001 | SWH Averaging Status, Ocean   |   |
|   | Backscatter Averaging Status  | more records. The Ice Backscatter Averaging Status Flag has been set for one or more  |
| CS_OFFL_SIR_GOPM_2_20180402T203947_20180402T204359_C001 | Backscatter Averaging Status  Ice Backscatter Averaging Status  | more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  |
|   | Backscatter Averaging Status  Ice Backscatter Averaging Status  SWH Averaging Status, Ocean  Backscatter Averaging Status | more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T203947_20180402T204359_C001 | Backscatter Averaging Status  Ice Backscatter Averaging Status  SWH Averaging Status, Ocean                               | more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or               |

| CS_OFFL_SIR_GOPM_2_20180402T210711_20180402T211851_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
|---|---|---|
| CS_OFFL_SIR_GOPM_2_20180402T212438_20180402T212703_C001 | Ice Backscatter Averaging Status                            | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T213335_20180402T214839_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T215019_20180402T220540_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T222708_20180402T223418_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T224258_20180402T230001_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T230223_20180402T231107_C001 | Ice Backscatter Averaging Status                            | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180402T231316_20180402T233550_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20180402T031058_20180402T031434_C001 | Ice Backscatter Averaging Status                            | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20180402T071649_20180402T071650_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20180402T113102_20180402T113108_C001 | Ice Backscatter Averaging Status                            | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20180402T153237_20180402T153411_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20180402T194748_20180402T195030_C001 | Ice Backscatter Averaging Status                            | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20180402T201212_20180402T201513_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20180402T203140_20180402T203715_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20180402T214840_20180402T215019_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |

### 5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

## 6. GOP L2 Pole-to-Pole Data Quality Check

#### 6.1 P2P Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).

Number of products with errors: 0

#### 6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

### 6.3 P2P Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

### 6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

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Number of products with errors:

## 6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

| Product   | Test Failed         | Description   |
|---|---------------------|---|
| CS_OFFL_SIR_GOP_220180402T194723_20180402T203700_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |

### 6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

| Product  | Test Failed   | Description   |
|--|---|---|
| CS_OFFL_SIR_GOP_220180401T235641_20180402T004617_C001  | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T004617_20180402T013554_C001  | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T013554_20180402T022531_C001  | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T022531_20180402T031508_C001  | Ocean Range Averaging Status                                | The Ocean Range Averaging Status Flag has been set for one or more records.           |
| CS_OFFL_SIR_GOP_220180402T031508_20180402T040444_C001  | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T040444_20180402T045421_C001  | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T045421_20180402T054358_C001 | Ocean Range Averaging Status, Ice Range Averaging Status    | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |

| CS_OFFL_SIR_GOP_2_20180402T054358_20180402T063335_C001 | Ocean Range Averaging Status, Ice Range Averaging Status    | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
|--|---|---|
| CS_OFFL_SIR_GOP_2_20180402T063335_20180402T072311_C001 | Ocean Range Averaging Status, Ice Range Averaging Status    | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T072311_20180402T081248_C001 | Ocean Range Averaging Status                                | The Ocean Range Averaging Status Flag has been set for one or more records.           |
| CS_OFFL_SIR_GOP_2_20180402T081248_20180402T090225_C001 | Ocean Range Averaging Status, Ice Range Averaging Status    | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T090225_20180402T095202_C001 | Ocean Range Averaging Status, Ice Range Averaging Status    | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T095202_20180402T104138_C001 | Ocean Range Averaging Status                                | The Ocean Range Averaging Status Flag has been set for one or more records.           |
| CS_OFFL_SIR_GOP_2_20180402T104138_20180402T113116_C001 | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T113116_20180402T122052_C001 | Ocean Range Averaging Status                                | The Ocean Range Averaging Status Flag has been set for one or more records.           |
| CS_OFFL_SIR_GOP_220180402T122052_20180402T131029_C001  | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T131029_20180402T140006_C001 | Ocean Range Averaging Status                                | The Ocean Range Averaging Status Flag has been set for one or more records.           |
| CS_OFFL_SIR_GOP_2_20180402T140006_20180402T144943_C001 | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T144943_20180402T153919_C001 | Ocean Range Averaging Status                                | The Ocean Range Averaging Status Flag has been set for one or more records.           |
| CS_OFFL_SIR_GOP_2_20180402T153919_20180402T162857_C001 | Ocean Range Averaging Status, Ice Range Averaging Status    | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T162857_20180402T171833_C001 | Ocean Range Averaging Status, Ice Range Averaging Status    | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T171833_20180402T180810_C001 | Ocean Range Averaging Status                                | The Ocean Range Averaging Status Flag has been set for one or more records.           |
| CS_OFFL_SIR_GOP_2_20180402T180810_20180402T185746_C001 | Ocean Range Averaging Status, Ice Range Averaging Status    | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T185746_20180402T194723_C001 | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T194723_20180402T203700_C001 | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T203700_20180402T212637_C001 | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T212637_20180402T221613_C001 | Ocean Range Averaging Status, Ice Range Averaging Status    | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T221613_20180402T230551_C001  | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T230551_20180402T235527_C001 | Ocean Range Averaging Status, Ice<br>Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |

# 6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

| Product  | Test Failed  | Description  |
|--|--|--|
| CS_OFFL_SIR_GOP_2_20180401T235641_20180402T004617_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T004617_20180402T013554_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T013554_20180402T022531_C001  | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T022531_20180402T031508_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status                                      | The SWH and Ocean Averaging Status Flags have been set for one or more records.      |
| CS_OFFL_SIR_GOP_220180402T031508_20180402T040444_C001  | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T040444_20180402T045421_C001  | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T045421_20180402T054358_C001  | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T054358_20180402T063335_C001  | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T063335_20180402T072311_C001  | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T072311_20180402T081248_C001  | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T081248_20180402T090225_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status                                      | The SWH and Ocean Averaging Status Flags have been set for one or more records.      |
| CS_OFFL_SIR_GOP_220180402T090225_20180402T095202_C001  | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T095202_20180402T104138_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status                                      | The SWH and Ocean Averaging Status Flags have been set for one or more records.      |
| CS_OFFL_SIR_GOP_2_20180402T104138_20180402T113116_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T113116_20180402T122052_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status                                      | The SWH and Ocean Averaging Status Flags have been set for one or more records.      |
|  |  |  |

| CS_OFFL_SIR_GOP_220180402T122052_20180402T131029_C001  | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
|--|--|--|
| CS_OFFL_SIR_GOP_220180402T131029_20180402T140006_C001  | SWH Averaging Status, Ocean<br>Backscatter Averaging Status                                      | The SWH and Ocean Averaging Status Flags have been set for one or more records.      |
| CS_OFFL_SIR_GOP_2_20180402T140006_20180402T144943_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T144943_20180402T153919_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status                                      | The SWH and Ocean Averaging Status Flags have been set for one or more records.      |
| CS_OFFL_SIR_GOP_2_20180402T153919_20180402T162857_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T162857_20180402T171833_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T171833_20180402T180810_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status                                      | The SWH and Ocean Averaging Status Flags have been set for one or more records.      |
| CS_OFFL_SIR_GOP_2_20180402T180810_20180402T185746_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status                                      | The SWH and Ocean Averaging Status Flags have been set for one or more records.      |
| CS_OFFL_SIR_GOP_2_20180402T185746_20180402T194723_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T194723_20180402T203700_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T203700_20180402T212637_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T212637_20180402T221613_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T221613_20180402T230551_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T230551_20180402T235527_C001 | SWH Averaging Status, Ocean<br>Backscatter Averaging Status, Ice<br>Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |

# 6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

| Product  | Test Failed                   | Description   |
|--|-------------------------------|---|
| CS_OFFL_SIR_GOP_2_20180401T235641_20180402T004617_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T004617_20180402T013554_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T013554_20180402T022531_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T022531_20180402T031508_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T031508_20180402T040444_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T054358_20180402T063335_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T063335_20180402T072311_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T072311_20180402T081248_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T081248_20180402T090225_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T090225_20180402T095202_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T095202_20180402T104138_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T104138_20180402T113116_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T113116_20180402T122052_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T122052_20180402T131029_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T131029_20180402T140006_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T140006_20180402T144943_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T144943_20180402T153919_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T153919_20180402T162857_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T162857_20180402T171833_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T171833_20180402T180810_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T180810_20180402T185746_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T194723_20180402T203700_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T203700_20180402T212637_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T212637_20180402T221613_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180402T221613_20180402T230551_C001  | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180402T230551_20180402T235527_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |